

UKSHE, Ye.A.; BUKUN, N.G.; LEYKIS, D.I.

Capacity of the electric double layer in fused salts. Dokl. AN SSSR 135 no.5:1183-1186 D '60. (MIRA 13:12)

1. Institut elektrokhimii AN SSSR 1 Bevennikovskiy filial Vsesoyuralyuminiyevo-magniyevogo instituta. Predstavleno akademikom A.N.

Frumkinym. (Salts) (Electric double layer)

BUKUN, N.G.; UKSHE, Ye.A.

Reaction of metallic magnesium with fused chlorides. Zhur.neorg. (MIPA 14:4)
khim. 6 no.4:512-919 Ap 161. (MIPA 14:4)

1. Bereznikovskiy filial Vsesoyuznogo alymminiyevomagniyego instituta. (Chlorides)

S/074/61/030/002/001/001 B124/B203

AUTHORS:

Ukshe, Ye. A. and Bukun, N. G.

TTTLE:

Dissolution of metals in molten halides

PERIODICAL: Uspekhi khimii, v. 30, no. 2, 1961, 243-273

TEXT: The present paper gives a survey of publications on dissolution processes of metals in melts without making mention of new papers by the authors. The dissolution of metals in salt melts is of great importance to many electrometallurgical and thermal processes such as the production of titanium, magnesium, aluminum, sodium, etc., as well as to the purification of metals. The solutions mentioned are most interesting also from a theoretical point of view since they permit essential conclusions to be drawn on the interaction in ion media and on the liquid state. For the formation of true solutions of metals in salt melts, three concepts can be assumed: 1) Dissolution of the metal in the form of atoms evenly distributed over the entire volume of the solution; 2) dissolution of the metal in salt melts by chemical interaction of the electrolyte with the metal, with forma-

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S/074/61/030/002/001/001 B124/B203

Dissolution of metals in molten...

tion of low-valency ions (sub-ions); and 3) solutions of metals in salt melts may be regarded as structural units which are identical with the color centers (F centers) so that these solutions might be called ion-electron liquids. Data are given on the formation of ions and compounds of low-valency. The apparent valency n of a metal can be determined from the anodic current yield of aqueous solutions of metals, and is generally very low (Table 1). The m values are not dependent on the current density or the concentration of the solution but they are determined by the anodic potential (Table 2). The basic data for calculating the formation heats of subhalides are also given, namely I = ionization potential, 6 = sublimation temperature, I/2 D = dissociation temperature, E = electron affinity, and the ionic radii (Table 3). The calculated and experimentally found values for the lattice energies and the formation heats of subhalides are given (Table 4), the difference not exceeding 10%. The color centers in ion crystals are described, studied, and characterized. The solubility of alkali-, alkaline-earth-, amphoteric, and other metals in halide melts, as well as in dependence on the type of halide, was also studied, as well as the effect of secondary cations on the solubility of metals. The solutions of metals in

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Dissolution of metals in molten...

salt melts were also studied cryoscopically. The structures of sodium and potassium dissolved in their halides (Table 12), and that of Bi in BiCl₃ (Fig. 7), were studied, where T_f is the melting point of the pure solvent, K_f = RT_fM_O/1000 L_f is the cryoscopic constant, L the melting heat of the pure solvent, M_O its molecular weight, and V the number of particles formed on dissolution of a metal. Further items of this study are the effect of metal dissolution on the vapor pressure of molten salts, the volume effects on metal dissolution in salt melts, potentiometric investigations of metal solutions, and the electrical conductivity of metals dissolved in salt melts. Finally, magnetic and spectroscopic studies of metals dissolved in salt melts, and the dissolution in electrochemical processes, are described. Ya. I. Ol'shanskiy, S. A. Semenkovich, D. V. Kokoulina, V. B. Kabanov, N. A. Belozerskiy, K. B. Yatsimirskiy, Kapustinskiy, A. F. Ioffe, P. S.Tartakovskiy, A. I. Zhurin, S. V. Karpachev, A. G. Stromberg, M. V. Smirnov, N. Ya. Chukreyev, A. I. Bukhbinder, L. N. Antipin and L. Suskiy are mentioned. There are 10 figures, 16 tables, and 167 references: 53 Soviet-

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S/074/61/030/002/001/001 B124/B203

Dissolution of metals in molten ..:

bloc and 71 non-Soviet-bloc.

ASSOCIATION: Bereznikovskiy filial Vsesoyuznogo alyuminiyevomagniyevogo

in-ta (Berezniki Branch of the All-Union Aluminum and Magnesium

Institute)

Legend to Table 1: Apparent valency ñ in anodic dissolution of some metals in aqueous solutions.

a) Normal valency

										/
Me	Be	ΑI	Mg	Zn	TI	Ga	ប	In	Mn	Hg
Норм. ва- лент- ность	2	3	2	2	3	3	4	3	3	7:11e4 V
<u>a)</u>			1		<u> </u>	1	1	1	1	
\widetilde{n}	1	1.3	1,2	1,4	1.5	1	1,4	1	1,7	

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s/074/61/030/002/001/001 B124/B203

Dissolution of metals in molten...

Legend to Table 2: Dependence of n on the type of solution and the anodic potential; a) solution, b) concentration in g-equ/1

ТАБЛИЦА 2

Зависимость \widetilde{n} от природы раствора и от потенциала анода по 44, 45

Pactrop	Концентрация в с-экв/л	i _a m\/cn²	ψÞ	ñ
MgCl ₂ MgBr ₂ MgSO ₄ ⁺ HgSO ₄ ⁺ +K ₂ CrO ₄ {	0,1-4,0 0,1-1,0 0,01-1,0 1,0 0,05 1,5	150 100 100 100 100	-1,7 -1,62 -1,55 -1,5	1,26 1,30 1,35 1,30

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S/074/61/030/002/001/001 B124/B203

Dissolution of metals in molten...

Legend to Table 3: Thermochemical characteristics of ions, kcal/mole; a) ion

Термохимические характеристики ионов, ккал/моль

-	e) Hor	1	đ	r. A	G) Her	1	n	r, A	Hon	E	1/1/0	r. X
	Mg+ Ca+ Sr+ Ba+ TI+ AI+ Hg+ Bi+	177,7 142,2 132,8 121,6 142,3 139,5 242,6 169,4	42,0 44,5 75,0 14,5	1,91 2,36 2,53 2,74 1,49 1,60 1,44 1,75	Zn ⁺ Cd ⁺ In ⁺ Ga ⁺ Sn ⁺ Pb ⁺ Sb ⁺	216,0 206,0 134,8 139,8 140,6 172,5 200,7	27,0 58,2 66,0 72,0 46,3	1,27 1,44 1,49 1,33 1,62 1,70 1,40	F- Cl- Ba- J-	93,5 88,2 81,6 74,6	32,2 28,9 26,9 25,4	1,33 1,81 1,96 2,20

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						44-41-					
Dissolution of metals	in mol	ten	•		s/ B1	074/6°/ 24/B203	/030/0 5	02/00	01/001		\$ 2.0
Legend to Table 4: Lattice energies and formation heats of subhalides and of	S.) Spiration China	U. KKB1,300.16	W. NNA.1/.KO.1b	Farmer	W	Cydrano- remna c)	U KKALS/WOJE	W. JAO.	Fancie.	Weignorth	
and formation heats of subhalides and of normal salts (298°K); a) subhalide, b) kcal/mole, c) halide	MgF I MgCl I	89.4 179.3 179.8	37,1 25,0 21,6 14,2	MgF ₂ MgCl ₂ MgBr ₂ MgJ ₂	263,5 153,4 123,7 86,0	AIF AICI AIBr AIJ	187,7 173,8 170,2 168,8	34,5 18,6 10,4 3,0	AIF ₄ AICi ₃ AIBr ₃ AIJ ₄	311,0 166,2 125,8 75,2	
	CaCl CaBr	157,9	41.0 29.0 24.4 17.7	CaF ₂ CaCl ₂ CaBr ₂ CaJ ₂	290,3 190,0 161,3 127,8	TIF TICI TIBr TIJ	193,3 177,5 175,5 171,5	67,8 50,0 43.4 33,9	TIF ₃ TICl ₃ TIB ₅ TIJ ₃	=	2
	SrF SrCl SrBr	159,1 151,8 151,7 153,7	48,4° 39:1 34,4. 30;9	SrF ₂ SrCl ₂ SrBr ₂ 1 SrJ ₂	290,3 193,0 171,1 135,5	ZnCl CdCl InCl GaCl	210,7 202,1 175,5 181,9	23,0 28,4 41,8 35,4	Z ₁ ,Cl ₂ CdCl ₂ I ₁ ,Cl ₃ GaCl ₃	09.4 93.0 128.4 125.4	-
. Card 7/9	BaF BaCl BaBr BaJ	151,4 144,5 144,6 144,0	49,1 40.2 35,7 29,6	BaF ₂ BaCl ₂ BaBr ₂ BaJ ₂	286,9 205,6 480,4 -144,0	St.Cl PECI SECI BiCl	173,8 182,4 200,9 180,1	22,9 -1,3	StiCl ₂ PbCl ₂ StiCl ₃ BiCl ₃	83,6 85,8 91,6 90,8	
				3.							

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Dissolution of metals in molten...

Legend to Table 12: Structure of dissolved sodium and potassium in halides; a) salt, b) kcal/mole

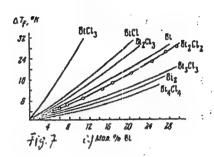
ТАБЛИЦА 12 * Структура растворенного натрия и калия в галогенидах

									LI				
CO.75	$ au_{f}$, ${}^{\circ}{\mathrm{K}}$	Ly RRdA	ΔT ₁ , *K	x · 108	КĮ	ν	CORL	τ _f .•κ	L _j hlids	ΔΤ _f . •K	x-10°	Kį	,
NaF NaCl NaBr NaJ	1268 1073 1020 933	7,8 6,7 6,24 5,64	5 5 7 3	2,1	13,7 18,5 33,2 49,0	[0,73]	KGI	1131 1043 1007 954	6,75 6,34 6,10 5,74	9 18 26 23	10	26,6 32,4	0,60 0,54 0,46 0,57

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Dissolution of metals in molten...

Legend to Fig. 7: Comparison of experimental data on the melting-point lowering of BiCl₃ on dissolution of Bi with the calculated values obtained for various structural schemes of solutions, a) mole₇ of Bi. \$/074/61/030/002/001/001 3124/B203



Card 9/9

UKSHE, Ye.A.; BUKUM, N.G. (Borezniki)

Faradic impedance of lead in molten chlorides. Zhur.fiz.khim.
(MIRA 14:12)
35 no.12:2689-2694 D '61.

1. Boreznikovskiy filial Vsesoyuznogo alyuminiyevo-magniyevogo instituta.
(Lead chloride-Electric properties)

DEVYATKIN, V.N.; UKSHE, Ye.A.

Behavior of iron electrodes in molten chlorides. Zhur.prikl.khim. 35 no.6:1328-1333 Je '62. (MIRA 15:7)

1. Filial Vsesoyuznogo alyuminiyevo-magniyevogo instituta. (Electrodes, Iron) (Chlorides)

UKSHE, Ye.A.; BUKUN, N.G.; LEYKIS, D.:.

Double electrical layer in fused salts. Zhur. fiz. khim. 36 (MIRA 17:5) no.11:2322-2328 N'62.

l. Institut elektrokhimii AN SSSR i Bereznikovskiy filial Vsesoyuznogo alyuminiyevo-magniyevogo instituta.

RYABUKHIN, Yu.M.; UKSHE, Ye.A.

rementación and month interferación de la residencia de menor en la comoción de la comoción de

Diffusion coefficients of lead in fused chlorides. Dokl.AN SSSR 145 no.2:366-368 Jl *62. (MIRA 15:7)

1. Bereznikovskiy filial Vsesoyuznogo nauchno-issledovatel'skogo alyuminiyevo-magniyevogo instituta. Predstavleno akademikom A.N.Frumkinym.

(Diffusion) (Lead compounds) (Fused salts)

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是多位數 國際型體學等于

s/062/63/000/001/005/025 B101/B186

Ukshe, Ye. A., Bukun, N. G., and Leykis, D. I.

AUTHORS:

Effect of the nature of the electrolyte on the capacity

of the double layer in molten salts TITLE:

Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh nauk, no. 1, 1963, 31-36 PERIODICAL:

TEXT: The capacity of the double layer of a molten lead electrode was measured at 18-20 kc/s- The electrode was in a capillary tube and covered with molten alkali halide. The reference electrode used was: Pb/10% by weight PbCl2 + electrolyte tested. The following compounds were studied

as electrolytes: NaCl; NaBr; NaI; NaCl + NaF 1:1; NaCl + KCl 1:1;
NaCl + NaI; KCl, KBr; KI, KCl + KF; C3Cl, C3I; LiCl; LiCl + 20 mole LiI.

The temperature was according to the NaCl according to the nature of the convergence. The temperature was 800°C, with NaCl 820°C. Results: The nature of the electrolyte had a marked effect on the structure of the double layer. The alkali halides can be subdivided into two groups. Na and Li halides give high capacity, this being strongly dependent on the nature of the anion: $C_{min} (\mu F/cm^2)$ is for NaCl 43, NaBr 52, NaI 75, LiCl 35, Card 1/3

Effect of the nature of the

S/062/63/000/001/005/025 B101/B186

LiCl + 20 mole% LiI 75; the potential φ_{min} is about -0.46 to -0.48 v, the C-versus-φ curve rises sharply on both sides of the minimum. The capacity produced by K and Cs halides is lower and not much affected by the nature of the anion (except F): C_{min} is for KCl and CsCl 28, KBr 29, KI 32, CsI 33; φ_{min} is about -0.55 to -0.60 v; the curve C = f(φ) is flatter. In both groups, addition of F ions increases the capacity proportionately to the F concentration. Iodide addition to NaCl and LiCl increases C_{min} rapidly to the limiting value of NaI and LiI respectively, which is reached already with 20 mole% iodide. The following capacity of the double layer changes owing to deformation of the ions and of the double layer; (2) the surface activity of the anions increases in Na cations replace anions from the metal-electrolyte interface and their table.

Card 2/3

Effect of the nature of the ... 3/062/63/000/001/005/025 B101/B106

ASSOCIATION: Institut elektrokhimii Akademii nauk SSSR (Institute of

Electrochemistry of the Academy of Sciences USSR); Bereznikovskiy filial Vsesoyuznogo alyuminiyevo-

magniyevogo instituta (Berezniki Branch of the All-Union Institute of Aluminum and Magnesium)

SUBMITTED: May 9, 1962

Card 3/3

UKSHE, Ye.A. (Berezniki); RYABUKHIN, Yu.M. (Bertaniti)

Regularities of diffusion and viscous flow in fused chlorides. Izv. AN SSSR, Met. 1 gor. delo no.5:84-88 S-0 '63. (MIRA 16:11)

BUKUN, N.G.; UKSHE, Ye.A.

Temperature dependence of the capacity of the double layer in fused salts. Zhur. prikl. khim. 36 no.9:1965-1969 D 63. (MIRA 17:1)

l. Bereznikovskiy filial Vsesoyuznogo nauchno-issledovatel'-skogo allyuminiyevo-magniyevogo instituta.

EMP(q)/EWT(m)/BDS AFFTC/ASD RDW/JD 12876-63 \$/0076/63/037/006/1401/1403 ACCESSION NR: AP3002943 AUTHOR: Bukun, N. G.; Ukohe, Ye. A. TITLE: The capacity of the double layer of tellurium and gallium in chloride fusion SOURCE: Zhurnal fizicheskoy khimii, v. 37, no. 6, 1963, 1401-1403 TOPIC TAGS: liquid tellurium, callium, argon, electrocapillary curve, chloride ABSTRACT: In this work, the results of measuring the capcity of the double electrical layer of liquid tellurium and gallium in the eutectic mixture KCl from LiCl are presented. The gallium capacity curves were taken at 450C and at 5500 for tellurium. The measurements were taken in a stream of argon. The electrode used for comparison was Pb/10 in wt. %, FbCl sub 2, KCl:LiCl, which has a more positive potential than the stationary lead electrole used for measurements of electrocapillary curves. The obtained results confirm that, in the fused salts, the potential minimum is connected with the transference of the metal potential. ecross the zero charge. The results agree satisfactorily with the presented electrocapillary measurement of the corresponding metals. Orig. art. has: 1 table and 3 figures. Association: All-Union Aluminum and Magnesium Inst. Card 1 /2/

UKSHE, Ye.A.; BUKUN, N.G.

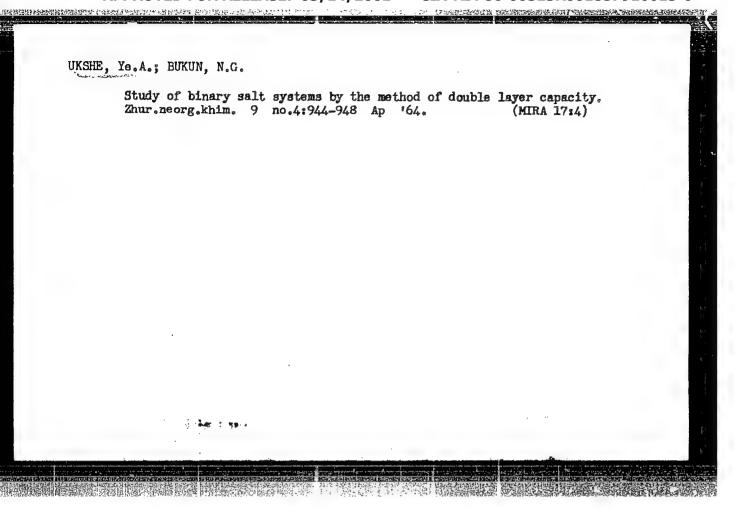
Method of measuring the capacity of the electrical double layer in fused salts. Zhur.fiz.khim. 37 no.7:1646-1649 Jl '63. (MIRA 17:2)

1. Vsesoyuznyy alyuminiyevo-magniyevyy institut, Bereznikovskiy filial.

UKSHE, Ye.A.; TOMSKIKH, I.V.

Effect of the nature of the electrolyte on the electrocapillary curves of lead in fused salts. Dokl. AN SSSR 150 no.2:347-348 My 163. (MIRA 16:5)

1. Bereznikovskiy filial Vsesoyuznogo alyuminiyevo-magniyevogo instituta. Predstavleno akademikom A.N.Frumkinym. (Electrocapillary phenomena) (Lead) (Electrolytes)



UKSHE, Ye.A.; BUKUH, N.G.

The system MgCl - LiCl. Zhur. neorg. khim. 9 no.7;1766(MIRA 17:9)

UKSHE, Ye.A.; BUKUN, N.G.

Study of salt systems CaCl₂ - NaCl and CaCl₂-KCl using the electrode capacity method. Zhur. neorg. khim. 9 no.10:2494-2495 0 164.

(MIRA 17:12)

1. Bereznikovskiy filial Vsesoyuznogo alyumniyevo-magniyevogo instituta.

UKSHE, Ye.A.; BUKUN, N.G.

Effect of the nature of fused salt and of the temperature on the properties of a double-electric layer. Elektrokhimita 1 no.1:113-115 Ja '65. (MIRA 18:5)

1. Bereznikovskiy filial Vsesoyuznego alyaminiyevo-magniyevogo instituta.

m/0270/65 300/001/: 148/0150 ACCESSION NR AP5009271 AUTHOR: Ukahe, Ye. A. (Berezniki): Stelanow, S.I. (Berezniki); Bakun, N.O. (Beresniki) TITLE: Behavior of solid metals in fosed potassium objective SOURCE: AN SSSR. Izvestiya. Metally, no. 1, 1965, 142-150 10FIC TAGS - fixed potassium objected from electrode, mickel electrode, titanium molten salt electrolyte, electrode ... t ABSTRACT: In order to study the influence of the oxygen present in a melt on metala, the citational behavior of from (low-carbon steel), nickel (brand MP-D and titanian (brand Vt-1) 31 ... It is for the state of micride was investigated at o200, the surface of the melt being theely beind with oxygen. The capacity, restatance, and stall, restaurantful of the electrodes were measured (see Fig. 1 of the Enclosure). The character of the C-Tand R-Courves for the iron and nickel electrodes shows that in the cases a poorly conducting The stage of the stage of the stage of Example on the state of a track of the second of the second Cord 1/B

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UKSHE, Ye.A. (Berganiki); RYABUMHIN, Yu.M. (Berganiki); VOLKOVA, S.V. (Berganiki)

Coefficients of the diffusion of land and silver ions in fused salts. Izv. AN SSSR. Met. no.4189-91 Jl-Ag 165.

(MIRA 1818)

UKSHE, Ye.A.; DEVYATKIN, V.N.

Kinetics of hydrogen electrolytic evolution from fused salts. Elektrokhimita 1 no.6:627-632 Je !65.

1. Institut elektrokhimit AN SSSR.

BUKUN, N.G.; UKSHE, Ye.A.

Fused mixtures of barium chlorides with alkali metal chlorides studied by the capacitance measurement method. Zhur. neorg. khim. 10 no.3:729-730 Mr 165.

Study of binary solutions of alkali metal chlorides by the capacitance measurement. Ibid.:731-732

(MIRA 18:7)

1. Bereznikovskiy filial Vsesoyuznogo alyuminiyevo-magniyevogo instituta.

UKSHE, Ye.A.; BUKUN, N.G.

Capacity method for studyirs fused mixtures of strontium and alkali metal chlorides. Zhur.neorg.khim. 10 no.4:1008-1010 (MIRA 18:6)

Ap '65.

1. Bereznikovskiy filial Vsesoyuznogo alyuminiyevo-magniyevogo instituta.

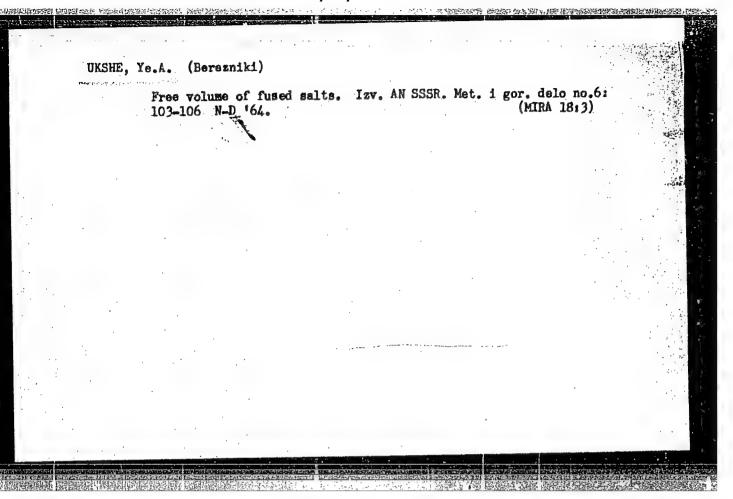
UKSHE, Ye.A.

Structure and properties of fused salts. Usp.khim. 34 no.2:322-355 F *165. (MIRA 18:5)

1. Bereznikovskiy filial Vsesoyuznogo alyuminiyevogo magniyevogo instituta.

DEVIATKIN, V.N.; UKSHE, Ye.k.

Solubility of hydrogen chloride in salt solutions. Zhur. prikl. khim.
38 no.7:1612-1614 Jl '65. (MIRA 18:7)



UKSHE, Ye.A. (Berezniki); STEFANOV, S.I. (Berezniki); BUKUN, N.G. (Berezniki)

Bohavior of hard metals in fused potassium chloride. Izv. AN SSER. Net. no.1:148-150 Ja-F 165. (MIRA 18:5)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001857910013-6"

UKSHE, Ye.A.; BUKUN, N.G.

Study of fused mixtures of RbCI - MgCl₂ and CsCl - MgCl₂ by the double layer capacity method. Zhur. neorg. khim. 10 no.2:551-552. F '65. (MIRA 18:11)

l. Bereznikovskiy filial Vsesoyuznogo alyuminiyevo-magniyevogo instituta. Submitted June 25, 1964.

UKSHE, Ye.A.; DEVYATKIN, V.N.

Some regularities of the formation of liquid metal deposit on a solid cathode. Zhur. prikl. khim. 38 no.5:1153-1156 My '65.

(MIRA 18:11)

1. Bereznikovskiy filial vsesoyuznogo alyuminiyevo-magniyevogo instituta.

UKSHE, Ye A.; DEVYATKIN, V.N.

Dissolution of hydrogen chloride in fused salts. Zhur. fiz. khim. 39 no.9:2288-2291 S *65. (MIRA 18:10)

1. Vsesoyuznyy alyuminiyevomagniyevyy institut, Boreznikovskiy filial.

UKSHE, Yu., inzhener, elektromekhanik

Shortcomings of the loading crane on the motorship "Severoles" made apparent during the ship's operation. Mor. flot 22 no.8:30-32 (MIRA 15:7)

1. Teplokhod "Severoles".

(Motorships)
(Cargo handling—Equipment and supplies)

UKSHE, Ym., inzh.-elektromekhanik, aspirant

Ways of introducing matematic control of the generator part of electric power plants on notorships of the "Volgoles" type. Mor. flot 23 no.3:27-29 Mr 163. (MIRA 16:3)

1. Teplokhod Everoles* Baltiyskogo parokhodstva i Leningradskoye vyssheye inzhenemoye morskoye uchilishche im. admirala Makarova.

(Electricity on ships) (Automatic control)

UKSIP, A.; PARN, A., red.; PILL, A., tekhn. red.

[Flora of the Estonian S.S.R.] Eesti NSV floora. Tallinn, Eesti Riiklik Kirjastus. Vol.7. 1961. 479 p. (MIRA 15:2)

l. Eesti NSV Teaduste Akadeemia. Zooloogia ja Botaanika Instituut.

(Estonia-Hawkweed)

UKSTIN, E. F.	USSR/Electricity - Cables (Contd) Feb theory of influence in cable circuits, constr of c axial cables, and shielding. Published by "Gosen- ergoizdat," 480 pp, R 15:65.	Favorable review of subject book, in which are in tigated the principles of communications cable the principles of their elec calculation and construction involving production technol of sym and coaxial cables. Special attention is given to the	"Review of I. I. Grodnev and B. F. Miller's Book 'munications Cables,'" E.F. Ukstin, K. A. Lyubimow, N. I. Venchugov, Engineers, State Sci Res Inst of Cable Ind	USSR/Electricity - Cables Books
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UKSTIN, E. F. (Eng.) m SERGEYCHUK, K. Ya. and LYUBIMOV, K. A.

"On the Problem of Using New Types of Intercity Communications Cables," Vest. Svyazi, No.7, pp 3-5, 1953

Translation No. 543, 27 Apr 56

GRODNEY, I.I., UKSTIN, E.F.

Calculation of the optimum designs of symmetrical cables in trunk communication. Elektrosviaz' 10 no.5:56-65 My '56. (MLRA 9:8)

(Radio lines)

GRODNEV, I.I.; LYUBINOV, K.A.; UKSTIN E-Face.

Multilayer combination shields for communication cables. Ricktrosvian' 10 no.12:48-56 D '56.

(Ricctric cables)

inshemer.

UKSTIN, E.F., inzhener; KHUDYAKOVA, V.A., inzhener; MAKAROVA, L.I.,

Electric strength of main cables having paper cord-styroflex insulation. Vest. elektroprom. 28 no.4:31-35 Ap '57. (MIRA 10:6)

l. Nauchno-issledovatel'skiy institut kabel'noy promyshlennosti.
(Electric cables)

GRODNEV, I.I., prof. LYUBIMOV, K.A.; UKSTIN, E.F.

Future development of wire communications technology. Vest. sviazi 22 no.1:11-13 Ja '62. (MIRA 14:12)

1. Vsesoyuznyy zaochnyy elektrotekhnicheskiy institut svyzai (for Grodnev). 2. Zamestitel nachal nika Nauchno-issledovatel skogo instituta kabel noy promyshlennosti po nauchnoy chasti (for Lyubimov).

(Telephone lines)
(Radio lines)

UKSUSNIKOV, B.

Perfecting production. Prom.koop. no.11:54-55 W '55. (MERA 9:5)

1. Nachal'nik konstruktorsko-tekhnologicheskogo byuro pri Mord-promsovete. (Mordovia--Gooperatice Societies)

MELINIKOV, L.M.; MEDJEDEVA, G.A.; OLERSKAYA, S.M.; KORCHEMKINA, A.S.; BUTAKOV, D.K.; UKSUSNIKOVA, A.A.

Determining the composition of sulfides in steels alloyed with nickel and manganese. Zav. lab. 31 no.2:142-146 '65. (MIRA 18:7)

1. Ural'skiy politekhnicheskiy institut im. S.M.Kirova.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001857910013-6"

ENGLA_65 EWT(d)/EED_2/EWP(1) Pq_4	10 1000E 165 // 00/0:13/0088/0089
ACCESSION NE ALECTIONS	t Tarrett
	France A. S.
AUTHOR: Salmin, Yu. N.; Sanderov, V. L.;	ORBUSOV (110 CO)
TITLE: A device for inspecting percent pit	the made of ferromagnetic naterial.
TITLE: A davice 101 that the Class 42, No. 170743	
Class 42, No	kh znakov, no. 9, 1965, 88-89
SOURCE: Byulleten' izobreteniy i tovarnyk	nti bitano y
storage device, memory plate	, quality control
ABSTRACT: This Author's Certificate intro	oduces a device for inaperiors which pass
• •	The state of the formal of the Authorities and the state of the state
The conductors which pass in . 45"	This stands makes nortact with Amountains
The conductors which pass in	This stands makes nortact with Amountains
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The conductors which pass in	This stands makes nortact with Amountains
The conductors which pass the conducting material in the liquid state are located in the backing plate channels	This stands makes contact with Amountains

PILIKOVSKIY, Mikhail Yakovlevich; RYBAKOV, Vladimir Mikhaylovich; UKRAINSKIY, E.M., retsenzent; BELITSINA, N.M., prof., doktor tekhm. nauk, red.; SOKOLOVA, V.Ye., red.; SHVETSOV, S.V., tekhm. red.

[Processing of synthetic fibers by cotton-spinning machinery]
Pererabotka khimicheskikh volokon na khlopkopriadil'nom oborudovanii. Pod red. N.M.Belitsina. Moskva, Izd-vo nauchnotekhn. lit-ry RSF3R, 1961. 166 p. (MIRA 15:1)

(Textile fibers, Synthetic)
(Spinning machinery)

7.288年,RF 如今記号: 法学院学期的记录,是自己的治理的

UKRAINSKIY, F.F.

Expansion of the production of chemicals in coke by-product plants in the Ukrainian S.S.R. Met. i gornorud. prom. no. 2: 42-43 Mr-Ap 164. (MIRA 17:9)

PETROV, Vladimir Sergeyevich; TULIN, Sergey Alekseyevich; UKRAINSKIY, F.Ya., red.; SMUL'SKAYA, T.K., red.-leksikograf; AKSEL'FOD, I.Sh., tekhn. red.

[Russian-Czech polytechnical dictionary]Russko-cheshskii politekhnicheskii slovar. Moskva, Glav.red. inostrannykh nauchnotekhn. slovarei Fizmatgiza, 1962. 635 p. (MIRA 15:12) (Russian language-Dictionaries-Czech) (Technology-Dictionaries)

UKRAINSKIY,M.

Let us restore to our mine its past glory. Mast.ugl.4 no.8:12
Ag 155. (MERA 8:10)

 Brigadir prokhodchikov shakhty no.30-31 tresta Shakhterskantratsit Stalinskoy oblasti
 (Donets Basin--Coal mines and mining)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001857910013-6"

VELLER, L.Ye., red.; YELANSKIY, A.N., red.; UKRAINSKIY, M.A., red.;

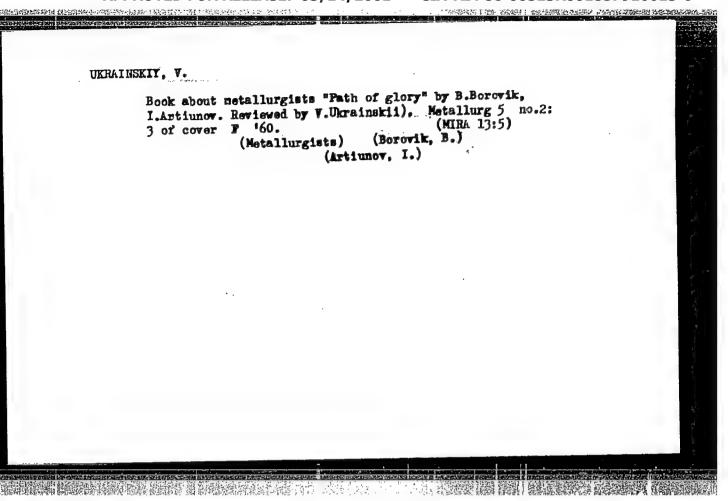
[Diamond mining in capitalist countries] Almazodobyvaiu-shchaia promyshlennost' kapitalisticheskikh stran. Mo-skva, 1963. 207 p. (MIRA 17:9)

l. TSentral'nyy nauchno-issledovatel'skiy institut informatsii i tekhniko-ekonomicheskikh issledovaniy tsvetncy metallurgii.

UKRAINSKIY, M.A., st. nauchn. sotr.; MASKEVICH, M.M.; LODEYSHCHIKOV, V.V., kand. tekhn. nauk; SKOBEYEV, I.K., prof., doktor tekhn. nauk; STAKHEYEV, I.S., kand. tekhn. nauk; KULIKOV, A.V., kand. tekhn. nauk; KULIKOVA, S.Ya., kand. geol.-miner. nauk; FOKROVSKIY, L.A.; ALEKSANDROVA, N.N.; YELANSKIY, A.N., st. nauchn. sotr.; TROKSKAYA, Z.I.; BANDENOK, L.I., nauchn. sotr.; VERIGO, K.N.; TEMKO, V.P., red.

[Gold mining industry in capitalist countries; technical and economic survey] Zolotodobyvaiushchaia promyshlennost' kapitalisticheskikh stran; tekhniko-ekonomicheskii obzor. Moskva, 1963. 337 p. (MIRA 17:6)

1. TSentral'nyy nauchno-issledovatel'skiy institut informatsii i tekhniko-ekonomicheskikh issledovaniy tsvetnoy metallugii.
2. TSentral'nyy nauchno-issledovatel'skiy institut informatsii i tekhniko-ekonomicheskikh issledovaniy tsvetnoy metallurgii (for Ukrainskiy, Yelanskiy, Verigo).

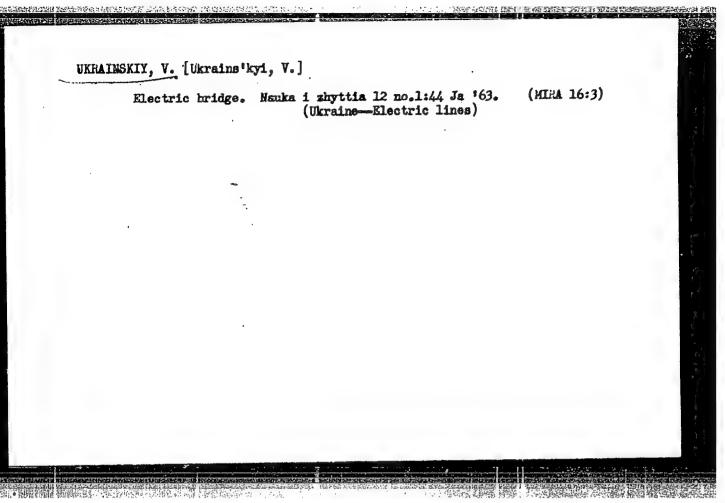


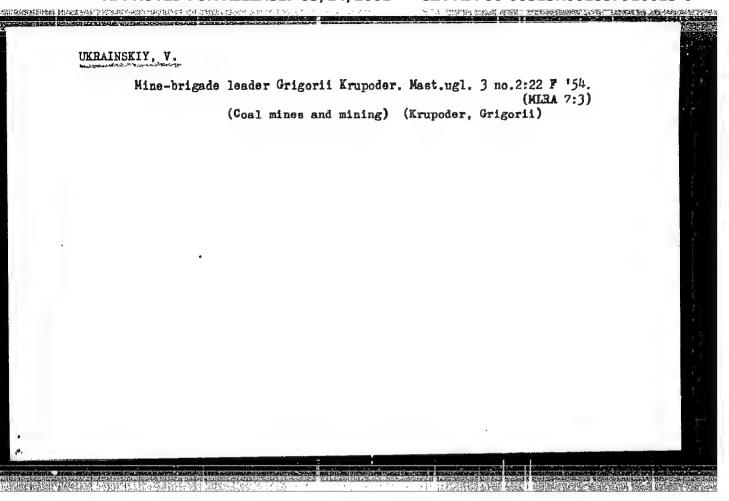
UKRAINSKIY, V.

Gaucasus, Northern - Cotton Growing.

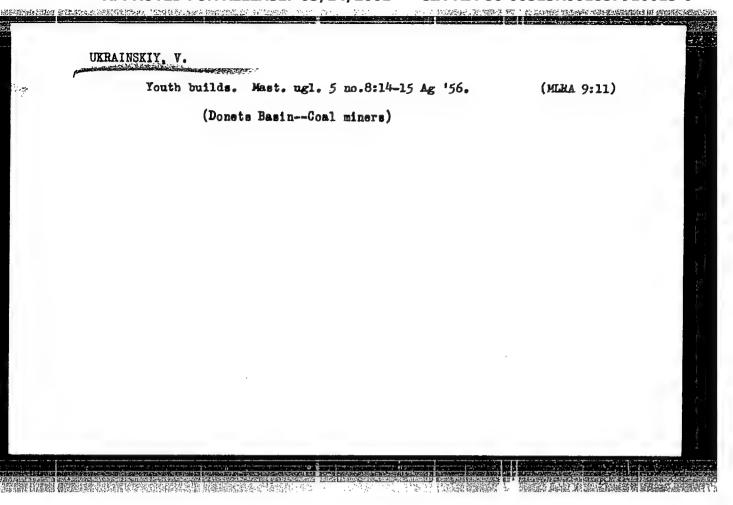
Urgent problems of Stavropol elite farms in regard to cotton. Khlopkovodstvo no. 6, 1952.

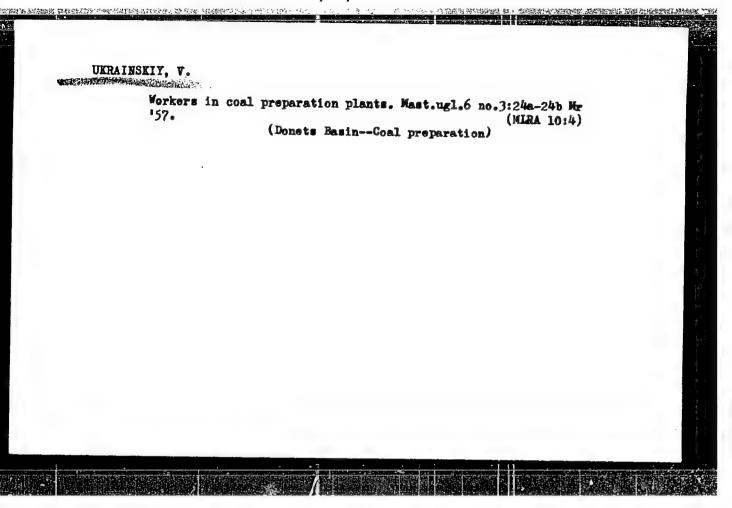
9. Monthly List of Russian Accessions, Library of Congress, November 1953/2 Uncl.

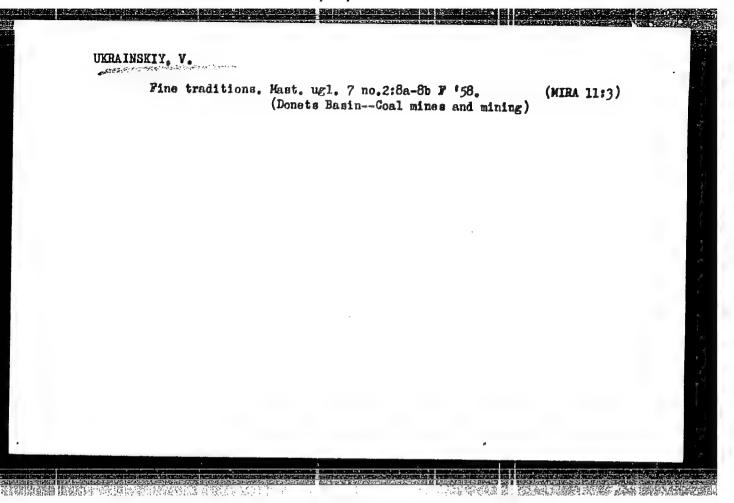


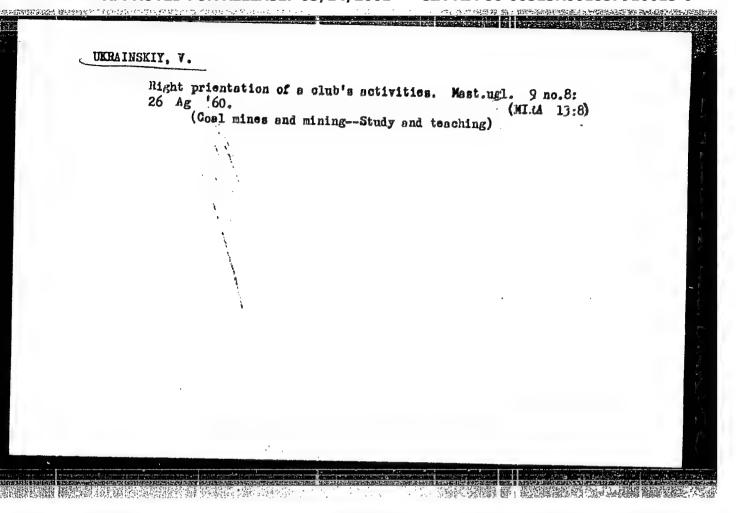


UKRAINSKIY, V. In new Gorlovka. Mast.ugl.3 no.3:16a-16d Mr 154, (MERA 7:4) (Gorlovka.—Coal miners) (Goal miners.—Gorlovka)









UHTAINUKIY, V.G.

"The Adaptable Variability of the Symovial Membranes in Human Hards and Alterior Extremities of Vertebrate Arimals." Dr Med Sci, Second State Moscow Medical Inst imeni I.V. Stalin, Vinitsa, 1954. (KL, No 1°, Apr 55)

SO: Sum.No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at UCSR Higher Educational Institutions (16).

UKRAINSKIY, Vladimir Grigor'yevich.

Vinnitsa State Med Inst, Academic degree of Doctor of Medical Sciences, based on his defense, 19 April 1954 in the Council of the 2nd Moscow State Med Inst imeni Stalin of his dissertation entitled: "About the Adaptive hanges of Synovial Sheaths of Man's Hand and the Frontal Extremities of Vertebrate Animals".

Academic degree and/or title: Doctor of Sciences

SO: Decisions of VAK, List no 7, 26, Mar 55, Byulleten' MVO SSSR, No. 14, July Moscow pp 4-22, Unci. JPRS/NY-429

UKRAINSKIY, V.G. Mothod of topographic sectional micro-and macro-separation in the study of the interfascial spaces of vessels and nerves on animal and human corpses. Arkh.snat.gist. i embr. 34 no.5:85-87 S-C '57. 1. Kafedra normal'noy anatomii (sav. - doktor med. nauk V.G. (MIRA 11:1) Ukrainskiy) Vinnitakogo meditsinskogo instituta. (CADAVHES: method of studying interfecial spaces of vessels & nerves in human & animal corpses) (BLOOD VESSELS, enat. and histol. seme) (MERVES: snat. & histol. seme)

UKRAINSKIY V.G., doktor med.nauk, prof.

Anatomic analysis of ratinal surgical access in suppurative tendovaginitis of the human wrist. Sbor.nauch.trud.Vin.der.med. inst. 18 no.1:5-17 '58. (MIRA 16:2)

1. Kafedra normal'noy anatomii (zav. kafedroy doktor med.nauk, prof. V.G. Ukrainskiy) Vinnitskogo gosudarstvannogo meditsinskogo instituta.

(WRIST—SURGERY) (TENDONS—INJURIES AND RUPTURES)

UKRAINSKIY; V.G., doktor med.nauk, prof.

Data on the anatomy of the vaginae synovialis in amphibians and reptiles. Sbor.nauch.trud.Vin.der.med.inst. 18 no.1:165173 '58. (MIRA 16:2)

1. Kafedra normal'noy anatomii (zav. kafedroy doktor med.nauk, prof. V.G. Ukrainskiy) Vinnitskogo gosudarstvennogo meditsinskogo instituta.

(SYNOVIAL MEMERANES) (AMPHIBIA—ANATORY)
(REPTILES—ANATOMY)

UKRAINSKIY, V.G., doktor med.nauk, prof.

Methods and technique of anatomic research. Stor.nauch.trud. Vin.der.med.inst. 18 no.2:137-140 *58. (MIRA 16:2)

1. Kafedra normal'noy anatomii (zav. kafedroy doktor med.nauk, prof. V.G. Ukrainskiy) Vinnitskogo gosudarstvennogo meditsinskogo instituta.

(ANATOMY)

UKRATHSKIY, Y.G.

Muscles of the pectorial fin in Trigla. Arkh.anst.gist. i embr. 35 no.1:101-102 Ja-F*58. (MIRA 11:4)

l. Iz kafedry normal'now anatomii (zav. - V.G.Ukrainskiy) Vinnitskogo gosudarstvennogo meditsinskogo instituta. (FISH.

Trigla, musc. of pscyoral fin (Rus))

UKRAINSKIY, Vladimir Timofeyevich Name Dissertation Biological and Agr Engineering Foundations of Field Grass Cultivation in the Steppe Zone

Degree Doc Agr Sci

Affiliation Azov-Black Sea Agr Inst

Defense Date, Place 19 Jun 52, Council of Voronezh Agr Inst

Certification Date 29 Dec 56

Source BMVO 7/57

UNRALWENTERNOU

USSR/Biology

FD 295

Card 1/1

Author

: Ukrainskiy, V. T.

Title

: Nodule bacteria on the roots of leguminous plants

Periodical

: Mikrobiologiya, 23, 291-296, May/Jun 1954

Abstract

: The development and capacity for fixing atmospheric nitrogen of the nodule bacteria found on the roots of Zaykevich's hybrid Poltava Lucerne and of Poltava 553 Sainfoin were thoroughly investigated. The influence of the moisture content of the soil, infection of seed with nodule bacteria prior to sowing, and of certain mineral and organic compounds on the development of lucerne and sainfoin and the formation of nodules on their roots is discussed in detail. Five tables; three photographs of nodule formations. Two Soviet references.

Institution : Azov-Black Sea Agricultural Institute

Submitted

: November 16, 1953

USSR/Cultivated Plants - Fodders.

M - 4

Abs Jour

: Ref Zhur - Biol., No 20, 1958, 91698

Author

: Ukrainskiy, V.T.

Inst

: Azovo- Chernomorsk Agricultural Institute.

Title

: The Developmental Peculiarities of the Perennial Leguminous

Grasses in the Steppe Zone.

Orig Pub

Sb. nauchno-issled. rabot. Azovo-Chernomorsk. s.-kh. in-t,

1957, 15, 73-86.

Abstract

Studies of the vernalization stage, the photoperiod and the germinative development of sainfoin and alfalfa were carried out at the Azovo-Chernomorsk Agricultural Institute. In alfalfa and Transcaucasian sainfoin the vernalization stage preceded without freezing temperatures and in the case of the spring sown sainfoin lasted 45-55 days. In the case of alfalfa this stage lasted 25-30 days and

Card 1/2

CCUNTRY FUSSR :Cultivated Plants. Grains. CATEGORY ABS. JOUR. : RZBiol., No. 21 , 1958; No. 95935 Malinovskiy, N.A.; Ukrainskiy, V.V. Stavropel' Sci. Res. That. of Agriculture ROHTUA Corn Varieties in the Arid Districts of INST. TITLE Stavropol'skiy Kray ORIG. PUB. Byul. nauchno-tekhn. inform. Stavropol'sk. n.-1. in-ta s.kh., 1957, No.3, 3-7 : The data are presented of tests of varieties ABSTRACT with different maturing rates and origin when used for grain, silage and for green feed. In grain yield only the Krasnodarskiy 10/53 variety excelled the VIR-42, districted to the arid zone. The greatest amount of green roughage (more than 200 centners per ha.) was obtained from the late maturing varieties: Osetinskaya Belaya Zubovidnaya / dent com/ Krasnodarskiy Hybrid 4, Odessa 10, Krasno-1/2 CARD:

5(2) AUTHORS:

SOV/156-59-1-15/54 Ukrainskiy, Yu. M., Novoselova, A. V., Simanov, Yu. P.

TITLE:

Investigation of the System Vanadium - Tellurium (Issledova-

niye sistemy vanadiy - tellur)

PERIODICAL:

Nauchnyye doklady vysshey shkoly. Khimiya i khimicheskaya tekhnologiya, 1959, Nr 1, pp 62 - 66 (USSR)

ABSTRACT:

Unlike vanadium sulfides and selenides the system of tellurides has not yet been investigated in its entirety. The synthesis of vanadium-tellurium compounds; V and Te in various ratios were heated for 500 hours up to 8000 in quartz ampoules which were closed by melting in vacuum. Temperature gradually decreased to room temperature for a period of 400 hours. This was done in order to cause the formation of compounds which are unstable at higher temperatures. The samples obtained were radiographically investigated. The V lines disappear already with a composition VTeC.20° The roentgeno-

gram of this & phase remains unchanged up to VTe 0.77. Even

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with a wide arc of traverse a shift of the interference lines

Investigation of the System Vanadium - Tellurium

SOV/156-59-1-15/54

does not occur. Hence a tetrahedral coordination of the atoms in this phase is assumed. Since the atom radii of Te and V are almost similar one can be substituted for the other in the crystal system without the interference lines being shifted. At VTe_{0.82} the diffraction picture changes suddenly. The ß phase is formed, the range of which lies between VTe 0.82 and VTe 1,27° At VTe 1,50° corresponding to V2Te3, the next phase follows the width of which, however, could not be found because the roentgenograms of the next sample (VTe 1.63) were useless. VTe, is characterized by its angles of reflection. With a higher tellurium content there are again lines of elementary tellurium. Thus the sample with the stoichiometric ratio VTe, indicates only the lines of VTe, and Te. Consequently, higher tellurides are not formed. The Debye roentgenograms of the K and A phase could not be explained. The k phase showed more than 100 lines, the A phase 60 - 65. Consequently, a less symmetrical (monoclinic or triclinic)

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Investigation of the System Vanadium - Tellurium

SOV/156-59-1-15/54

structure of these phases is to be assumed. V₂Te₃ probably is monoclinic. At VTe₂ 2modifications were found; the one is scale-like, the other forms elastic threads. Debye diagrams of these thread-like crystals were plotted (Table) and the axes were measured. It was found: a = 6.47 kx, b= 7.28 kx and c= 6.26 kx (rhombic syngony). Diagrams of the conductivity and thermo-electromotive force (Fig) show characteristic maxima for the phases N and Band for VTe₂. The conductivity

of all samples decreased after three months, however, it remained so high that a metallic character of the bond in the vanadium tellurides may be presumed in view of the weak electromotive force. There are 3 figures, 1 table, and 9 references. 4 of which are Soviet.

ASSOCIATION: Kafedra neor

Kafedra neorganicheskoy khimii Moskovskogo gosudarstvennogo universiteta im. M. V. Lomonosova (Chair of Inorganic Chemistry of Moscow State University imeni M. V. Lomonosov)

SUBMITTED: October 1, 1958

Card 3/3

5(2), 18(6) AUTHORS:	Ukrainskiy, Yu. M., Novoselova, A. V. SOV/78-4-1-28/48 Simanov, Yu. P.
TITLE:	Investigation of the Tantalum-Tellurium System (Issledovaniye sistemy tantal - tellur)
PERIODICAL:	Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 1, pp 148-152 (USSR)
ABSTRACT:	The tantalum tellurides were investigated. For the production of tantalum tellurides pure tantalum powder with slight impurities (niobium 0.3% and titanium 0.1%) and pure tellurium (99.99%) were used. Ba means of the differential thermic analysis it was found that the reaction between tantalum and tellurium begins at 450°. The sintering of tellurides was carried out at 800°. X-ray analyses and determinations of the electric conductivity and of the thermoelectromotive force were carried out. In the system Ta-Te the compound TaTe, and two compounds of varying composition were found as follows: In the system Ta-Te the compound as follows: In the system Ta-Te the composition of the thermo-
Card 1/2	system Ta-Te which had been obtained by sintering the com-

Investigation of the Tantalum-Tellurium System

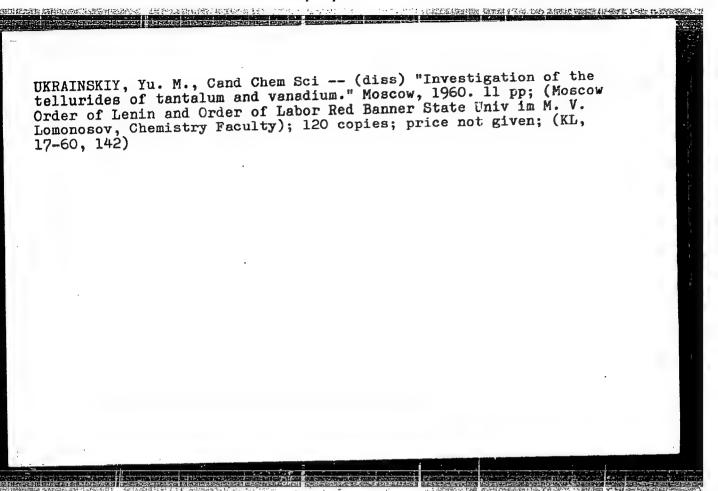
SOY/78-4-1-28/48

ponents during a period of 400 hours at 900° and hardening during a period of 150 hours at 500° was plotted. The curve of the specific electric conductivity shows a maximum at the TaTe₃ composition. The electric conductivity of the samples varies considerably depending on the conditions under which the samples have been prepared. The curve of the dependence of the thermo-electromotive force on the composition shows a minimum with TaTe₃. The high value of the specific electric conductivity and the low value of the thermo-electromotive force show that the chemical bond in TaTe₃ is semi-metallic. The preparations with the composition TaTe_{0.8-0.5} are unstable in air. Lower tellurides were not found in the tantalumtellurium system. There are 5 figures and 4 references, 2 of which are Soviet.

SUBMITTED:

October 1, 1957

Card 2/2



"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001857910013-6

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1160, 1138, 10.43

27 261 a/020/61/139/005/014/021 B103/B217

AUTHORS:

Ukrainskiy, Yu. M., and Novoselova, A. V., Corresponding

Member AS USSR

TITLE:

Molybdenum and rhenium diselenides

PERIODICAL:

Akademiya nauk SSSR. Doklady, v. 139, no. 5, 1961, 1136-1137

TEXT: The authors studied MoSe and ReSe which have the same type of crystalline structure with respect to semiconductor properties. They were synthesized by the authors by sintering powdery Mo or Re (both~99% pure) with a stoichiometric selenium quantity (99.9% pure) in quartz ampuls sealed in vacuo. Sintering took 100 hr at 700° C. The preparations obtained are gray powders of metallic luster which are perfectly stable in air. The x-ray powder pattern of the specimens was recorded by cameras of the type PKP-57 (RKD-57) with copper radiation. The authors found that MoSe₂ had a hexagonal elementary cell with the parameters a * 3.28 kK; c = 12.8 kK. Its pycnometric density was 6.90 ± 0.05 g/cm³. If the elementary cell of MoSe₂ like that of MoS₂ is assumed to contain two molecular units, the calculated Card 1/4

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Molypdenum and rhenium diselenides

density of MoSe, was 7.0 g/cm3. This agree well with the experimentally determined density. Most lines of the x-ray powder pattern can be indicated by the same hkl indices as those of $ext{MoS}_{2^{-s}}$ In either case, equal conditions of non-extinction of reflexes of the type hhl and OOl prevail with even 1. For all these reasons, the authors consider molybdenum diselenide and molybdenum disulfide to be isostructural compounds. The Debye powder pattern of ReSe shows a set of interplanar distances, which indicates a perfect reaction course between Re and Se. This x-ray pattern contains a much greater number of lines than that of MoSe, which cannot be explained by the elementary cell of the MoS, type. The ReSe, structure is probably lower ${\tt symmetrical.} \quad {\tt Electrical \ conductivity \ and \ thermo-emf \ of \ MoSe}_2 \ {\tt and \ ReSe}_2 \ {\tt were}$ measured potentiometrically (for methods see: Yu. M. Ukrainskiy, A. V. Novoselova, Yu. P. Simanov, ZhNKh, 1, 148 (1959)). 12-15 mm high columns, 4 mm in diameter, produced under a pressure of 8 tons/cm2, served as specimens. Conductivity was measured between 20 and 70°C. The specific conductivity of MoSe, was 1.23.10-4 ohm-1.cm-1 at 220C, and increased with Card 2/4

Molybdenum and rhenium diselenides

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rising temperature. At 62°C, it was 2.30.10⁻⁴ ohm⁻¹.cm⁻¹. The conductivity of ReSe₂ was 6.75.10⁻⁵ ohm⁻¹.cm⁻¹ at 24°C, and 10.7.10⁻⁵ ohm⁻¹.cm⁻¹ at 64°C. The positive temperature coefficient of electrical conductivity and the value of the latter point to the semiconductor properties of MoSe₂ and ReSe₂. This is confirmed by the high thermo-emf proved by the authors. The thermo-emf was measured by the integral method in the ratio to alumel. The temperature difference between the two ends of the specimen was varied between 25 and 150°C. This changes the thermo-emf of MoSe₂ between 610 and 430 pt/deg (alumel) was negatively charged. Therefore, the authors consider the two disclenides to be p-type semiconductors. They thank Yu. P. Simanov for bloc and 3 non-Soviet-bloc. There are 1 table and 5 references: 2 Soviet-reads as follows: H. V. A. Briscoe, R. L. Robinson, E. M. Stoddart, J.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova

(Moscow State University imeni M. V. Lomonosov)

L 17828-63 EMP(q)/EMT(m)/EDS AFFTC/ASD RDW/JD

ACCESSION NR: AP3004340

8/0078/63/008/008/1801/1805 57

AUTHOR: Aslanov, L. A.; Ukrainskiy, Yu. M.; Simanov, Yu. P. (Deceased)

TITIE: Tantalum diselenide and triselenide

SOURCE: Zhurnal neorganicheskoy khimii, v. 8, no. 8, 1963, 1801-1805

TOPIC TAGS: chalcogenide, transition metal, transition metal chalcogenide, diselenide, triselenide, tantalum-selenium system, tantalum diselenide, tantalum triselenide, semiconductor, crystalline structure, phase composition, electrical conductivity, thermal emf, lattice parameter, nonstoichiometric tantalum diselenide, beta modification, delta modification, beta-tantalum disulfide, deltatantalum disulfide

ABSTRACT: Crystalline structure, phase composition, electrical conductivity, and thermal emf have been determined for a series of synthetic samples in the TaSe2—TaSe, composition range. The study was initiated in view of the known semiconductor properties of certain transition metal chalcogenides and the incomplete data in the literature on phase composition in the Ta-Sc system. The samples were synthesized from the elements in evacuated quartz/pmpoules. Chemical and

Card 1/82

L 17828-63

ACCESSION NR: AP3004340

microscopic analysis of samples premared by sintering at 750C followed by gradual cooling revealed the existence of two phases, TaSe, whiskers and TaSe1.98 lamellar structure with a hexagonal unit cell. The x-ray powder setterns of a TaSe1.98 sample prepared by sintering at 850C and gradual cooling, and of the same sample reheated at 900C and then sublimed in a vacuum at 1100C, made it possible to distinguish β- and δ-crystalline modifications of TaSe1.98 having the lattice parameters a = 3.429 Å, c = 12.73 Å and a = 3.46 Å, c = 37.9 Å, respectively. A structural analogy is drawn between the β- and δ-TaSe1.98 and β- and δ-TaSe2. Stoichiometric TaSe2 was obtained by water-quenching of the sample from 750C. The TaSe2 crystals were found to belong to a hexagonal system with lattice parameters a = 3.44 Å and c = 6.27 Å. Only two phases were detected over the entire TaSe1.98—TaSe2.00 composition range. The relatively high electrical conductivity of β-TaSe1.98 and TaSe2 (800 and 150 ohm 1 x cm 1, respectively) and the low thermal emf (e.g., 0 for TaSe2-alumel thermocouple) lead to the conclusion that the chemical bond in tantelum disclenide and trisclenide is essentially metallic in character. "In conclusion, the authors express their deep gratitude to A. V. Novoselova for her valuable advice and continuing interest in the work." Orig. art. has: 3 tables.

Card 2/35

ASLANOV, L.A.; SIMANOV, Yu.P. [deceased]; NOVOSFLOVA, A.V.; UKRAINSKIY, Yu.M.

Tantalum triselenide and trisulfide. Zhur. neorg. knim. 3 no.12: MIRA 17:9)

I. 20682-65 EWT(=)/EWP(b)/EWP(t) IJP(c) RDN/JD/JG ACCESSION NR: AP4044816 S/0078/64/009/309/2264/2265

AUTHOR- Aslanev, L. A. Novoselova A. V. III rainski, Yu. M.; Simanov, Yu. F.

TITLE: Variable composition phases in the fantalum-selenium system

SOURCE: Zhurnal neorganicheskoy khimii, v. 9, no. 9, 1984, 2264-2266

TOPIC TAGS: tantalum selenium system, variable phase composition, tantalum selenide, tantalum diselenide

ABSTRACT: The phase relationships in the Ta-Se system in the composition region TaSe_{1.0-2.0} were investigated. Samples were prepared by heating the Table 1.0-2.0 were investigated. Samples were prepared by heating the Table 1.0-2.0 were investigated. Samples were prepared by heating the Table 1.0-2.0 were investigated. Samples were prepared by heating the to room temperature. In compositions in the region Table 1.88-1.67 x-ray powder deagnering showed the presence of beta-learning and delta-modifications.

The last 1.0-2.0 were investigated and the presence of beta-learning while the gamera and delta-modification.

The last 1.0-2 in the last 1.0-2 i

Card 1/2

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is metastable in the TaSe 1 98-1 67 region; the solid solutions based thereon

the cera-impositionation increased, while for garitis- it decreased as the tartalops

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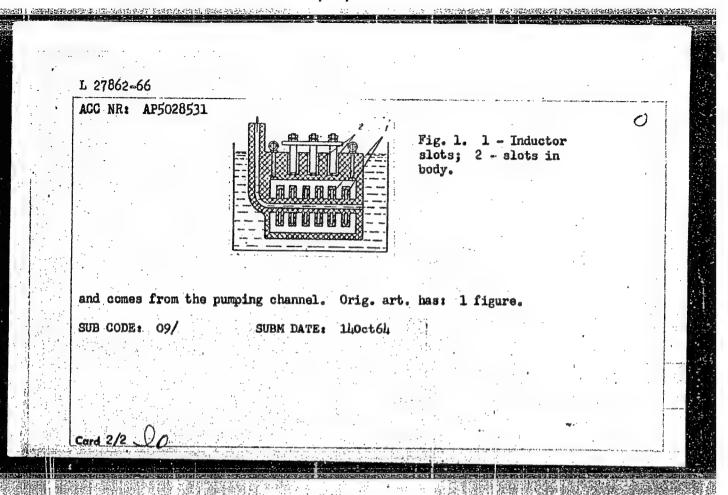
Card 2/2

LELICHENKO, V., insh.; UKRAINSKY, F., insh.

Making thermosite-concrete wall blocks without using cement. Stroi. mat. 4 no.5:35-37 My '58. (MIRA 12:4)

1. Nauchno-issledovatel'skiy institut stroitel'nykh konstruktsiy Akademii stroitel'stva i arkhitektury USSR (for Lelichenko). 2. Zavod im. Il'icha v g. Zhdanove (for Ukrainskiy). (Concrete blocks)

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ORG: none	32
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byuro mekhanizat	of the Latvian SSR (Tsentral'noye proyektno-konstruktorskoye sil i avtomatizatsli sovnarkhoza Latviyskoy SSR)/
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Monta - Djalled	en' izobreteniy i tovarnykh znakov, no. 20, 1965, 125
TOPIC TAGS: elec	ctromagnetic pump, liquid metal pump, magnetic circuit, electrode,
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slots in the hody	which has a manufactured and olectrodes located in
inductor winding	ating temperature range, the pumped fluid!(see Fig. 1). To material. This metal fills the industry at large as the
az.acziig	material. This metal fills the inductor and electrode slots
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	UDC: 621.689



UKRAINTSEV, B. S. (Candidate of Philosophical Sciences)

"On the Possibilities of Cybernetics in View of the Property of Representation of Matter."

Filosofskiye voprosy kibernetiki (Philosophical Problems of Cybernetics), Publisting House of Socio-Economic Literature, Moscow, 1961 392 p.

USSEK/Nuclear PHYsics - Nuclear Engineering and Power UKRAINTSEY F. 1 Abst Jour : Ref Zhur - Fizika, NO 1, 1958, 597. Author Leypunskiy, .A. I., Blokhintsev, D. I., Aristarkhov, I. M., Bondarenko, I. I., Kazachkovskiy, O. D., Pinkhasik, M. S., Stavisskiy, Yu. Ya., Stumbur, E. A., Ukraintsev, F. I., Usachev, L. N. Inst Title : Experimental Fast-Neutron Reactor ER-2 Orig Pub : Atom. energiya, 1957, 2, No 6, 497-500 : Brief description of the arrangement of the experimental ABstract operating reactor with fast neutrons and its basic experimental and auxiliary equipment. The reactor is intedded for physical research with fast neutrons. The active zone of the reactor is made up of plutonium rods; the lateral reflector is made of impoveraghed uranium. The heat is carried away from the active zone by mercury and from the uranium reflected by air. The total nominal power of the reactor is 150 kw, of theses 100 kw are liberated. in the active zone.

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LEIJFUNSKIJ, A.I. [Leypunskiy, A.I.]; BLOCHINGEV, D.I. [Blokhintsev, D.I.];
ARISTARCHOV, I.N. [Aristarkhov, I.N.]; BONDARENKO, I.I.;
KAZACKOVSKIJ, O.D. [Kazakovskiy, O.D.]; PINCHASIK, M.S.;
STAVISAKIJ, Ju., Ja. [Stavisskiy, Yu. Ya.]; STUMEUR, B.A.;
UKRAJINGEV, F.I. [Ukraintsev, F.I.]; USACEV, L.N. [Usachev, L.N.];
MEDONOS, S. [translator]

Soviet experimental reactor with fast neutrons BR-2. Jaderna energie 3 no.8:231-233 Ag '57.

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